

CLAIMS:

1. A surgical apparatus mounted to a surgical table, wherein the apparatus engages and manipulates a position of a bone within a surgical site, the apparatus comprising:
 - a support member operably attached to the surgical table, the support member positioned proximate the surgical site; and
 - a retractor operably attached to the support member, the retractor comprising:
 - a handle having a proximal end and a distal end; and
 - a blade having a proximal end and a distal end wherein the proximal end of the blade attaches to the distal end of the handle, the blade comprising a substantially flat central portion and an inwardly arcuate portion proximate the distal end.
2. The apparatus of claim 1 wherein the blade of the retractor further comprises a surface defining an aperture disposed within the substantially flat central portion.
3. The apparatus of claim 2 wherein the blade of the retractor further comprises the surface defining the aperture being further disposed within the inwardly arcuate portion proximate the distal end.
4. The apparatus of claim 1 wherein the handle of the retractor further comprises a mechanical mechanism wherein the mechanical mechanism adjusts a lateral position of the blade.

5. The apparatus of claim 4 wherein the mechanical mechanism of the handle further comprises:

- a casing operably attached to the support member, the casing comprising a through bore and a gear bore in communication with the through bore;
- a shaft disposed through the through bore and having a rack disposed along a length of the shaft; and
- a gear disposed within the gear bore, the gear having a plurality of pinions wherein the pinions engage the rack of the shaft to adjust the lateral position of the blade.

6. The apparatus of claim 5 wherein the shaft of the handle of the retractor further comprises a through bore along the length of the handle.

7. The apparatus of the claim 6 wherein the handle further comprises:

- a push rod disposed through the through bore in the shaft, the push rod having a first end and a second end, the second end being threaded; and
- a first block having a first end and a second end, the first end threadably attached to the threaded second end of the shaft and a first ramped surface proximate a second end of the first block.

8. The apparatus of claim 7 wherein the handle further comprises a second block pivotally attached to a distal end of the shaft, the second block having a proximal end and a distal end, the distal end of the second block being attached to the blade and wherein the first end comprises a second ramped surface wherein

the first ramped surface of the first block engages the second ramped surface of the second block to adjust a vertical position of the blade.

9. A table mounted surgical retractor for retracting a bone within a surgical site, the table having a support arm operably attached thereto, the retractor comprising:

- a handle operably attached to the support arm, the handle comprising a proximal end and a distal end; and
- a blade having a proximal end and a distal end wherein the proximal end of the blade attaches to the distal end of the handle, the blade comprising a substantially flat central portion and an inwardly arcuate portion proximate the distal end.

10. The retractor of claim 9 wherein the blade of the retractor further comprises a surface defining an aperture disposed within the substantially flat central portion.

11. The retractor of claim 10 wherein the blade of the retractor further comprises the surface defining the aperture being further disposed within the inwardly arcuate portion proximate the distal end.

12. The retractor of claim 9 wherein the handle of the retractor further comprises a mechanical mechanism wherein the mechanical mechanism adjusts a lateral position of the blade.

13. The retractor of claim 12 wherein the mechanical mechanism of the handle further comprises:

a casing operably attached to the support member, the casing comprising a through bore and a gear bore in communication with the through bore;
a shaft disposed through the through bore, the shaft comprising a rack disposed along a length of the shaft; and
a gear disposed within the gear bore, the gear having a plurality of pinions wherein the pinions engage the rack of the shaft to adjust the lateral position of the blade.

14. The retractor of claim 13 wherein the shaft of the handle of the retractor further comprises a through bore along the length of the handle.

15. The retractor of the claim 14 wherein the handle further comprises:
a push rod disposed through the through bore in the shaft, the push rod having a first end and a second end, the second end being threaded; and
a first block having a first end and a second end, the first end threadably attached to the threaded second end of the shaft and a first ramped surface proximate the second end of the first block.

16. The retractor of claim 15 wherein the handle further comprises a second block pivotally attached to a distal end of the shaft, the second block having a proximal end and a distal end, the distal end of the second block being attached to the blade and wherein the second block at the proximal end comprises a second ramped surface wherein the first ramped surface of the first block engages the second ramped surface of the second block to adjust a vertical position of the blade.

17. A table mounted surgical retractor for retracting a bone within a surgical site, the table having a support arm operably attached thereto, the retractor comprising:

- a handle operably attached to the support arm, the handle comprising a proximate end and a distal end; and
- a blade having a proximal end and a distal end wherein the proximal end of the blade attaches to the distal end of the handle, the blade comprising a substantially flat central portion and an inwardly arcuate portion proximate the distal end and wherein the blade further comprises a surface defining an aperture disposed within the substantially flat central portion and extending into the inwardly arcuate portion proximate the distal end.

18. The retractor of claim 17 wherein the handle of the retractor further comprises a mechanical mechanism wherein the mechanical mechanism adjusts a lateral position of the retractor blade.

19. The retractor of claim 18 wherein the mechanical mechanism of the handle further comprises:

- a casing operably attached to the support member, the casing comprising a through bore and a gear bore in communication with the through bore;
- a shaft disposed through the through bore and having a rack disposed along a length of the shaft; and
- a gear disposed into the gear bore, the gear having a plurality of pinions wherein the pinions engage the rack of the shaft to adjust the lateral position of the blade.

20. The retractor of claim 19 wherein the shaft of the handle of the retractor further comprises a through bore along the length of the handle.

21. The retractor of the claim 20 wherein the handle further comprises:
a push rod disposed through the through bore in the shaft, the push rod having a first end and a second end, the second end being threaded; and
a first block having a first end and a second end, the first end threadably attached to the threaded second end of the shaft and a first ramped surface proximate the second end of the first block.

22. The retractor of claim 21 wherein the handle further comprises a second block pivotally attached to a distal end of the shaft, the second block having a proximal end and a distal end, the distal end of the second block being attached to the blade and wherein the second block at the proximal end includes a second ramped surface wherein the first ramped surface of the first block engages the second ramped surface of the second block to adjust a vertical position of the blade.